

AMENDMENTS TO THE SPECIFICATION

Please delete Tables 1, 2 and 3.

Amend the specification by inserting between pages 23 and 24 the deleted Tables 1, 2 and 3, which are reproduced below.

Table 1

	M	1-x	x	1-d	d	Hardness	Adhesion	Friction coefficient	Specific wear	Diffraction peak half width
	M	M	Si	C	N	HV	N	μ	mm ³ /N-m	$^{\circ}$
1	Cr	1	0	0	1	1500	80	0.12	1.00E-07	0.36
2	Cr	0.95	0.05	0	1	1550	75	0.15	1.50E-07	0.37
3	Cr	0.9	0.1	0	1	1570	75	0.24	2.60E-07	0.45
4	Cr	0.75	0.25	0	1	1650	75	0.22	2.30E-07	1.2
5	Cr	0.6	0.4	0	1	1700	72	0.09	1.20E-07	1.48
6	Cr	0.5	0.5	0	1	2000	67	<0.01	6.00E-08	2.3
7	Cr	0.35	0.65	0	1	2050	67	<0.01	4.20E-08	(111) Undetectable
8	Cr	0.2	0.8	0	1	2000	65	<0.01	3.40E-08	(111) Undetectable
9	Cr	0.1	0.9	0	1	2010	65	<0.01	1.20E-08	(111) Undetectable
10	Cr	0	1	0	1	1900	40	<0.01	1.00E-08	(111) Undetectable
11	Ti	1	0	0	1	2000	70	0.13	2.00E-07	0.25
12	Ti	0.95	0.05	0	1	2200	70	0.16	2.30E-07	0.27
13	Ti	0.9	0.1	0	1	2300	68	0.27	4.50E-07	0.27
14	Ti	0.75	0.25	0	1	2250	67	0.24	3.50E-07	0.8
15	Ti	0.6	0.4	0	1	2200	65	0.13	3.40E-07	1.45
16	Ti	0.5	0.5	0	1	2150	64	<0.01	8.00E-08	2.6
17	Ti	0.35	0.65	0	1	2200	63	<0.01	5.50E-08	(111) Undetectable
18	Ti	0.2	0.8	0	1	2150	63	<0.01	3.20E-08	(111) Undetectable
19	Ti	0.1	0.9	0	1	2100	57	<0.01	2.80E-08	(111) Undetectable
20	Ti	0	1	0	1	2010	40	<0.01	1.00E-08	(111) Undetectable
21	Cr	0.2	0.8	0.4	0.6	2050	65	<0.01	3.40E-08	(111) Undetectable
22	Cr	0.2	0.8	0.2	0.8	1950	55	<0.01	3.20E-08	(111) Undetectable
23	Cr	0.2	0.8	1	0	1900	55	<0.01	3.20E-08	(111) Undetectable

Table 2

		1-x	x	C	b	1-b	Hardness	Adhesion	Friction coefficient	Specific wear
	M	M	Si		N	O	HV	N	μ	mm ³ /N·m
1	Cr	0.2	0.8	0	1	0	2000	65	<0.01	3.40E-08
2	Cr	0.2	0.8	0	0.98	0.02	2000	65	<0.01	2.30E-08
3	Cr	0.2	0.8	0	0.92	0.08	2000	65	<0.01	2.40E-08
4	Cr	0.2	0.8	0	0.85	0.15	1950	65	<0.01	3.10E-08
5	Cr	0.2	0.8	0	0.75	0.25	1700	45	0.03	6.70E-08
6	Zr	0.2	0.8	0	1	0	2350	65	<0.01	4.20E-08
7	Zr	0.2	0.8	0	0.98	0.02	2350	65	<0.01	2.90E-08
8	Zr	0.2	0.8	0	0.92	0.08	2250	65	<0.01	2.50E-08
9	Zr	0.2	0.8	0	0.88	0.12	2200	65	<0.01	3.30E-08
10	Zr	0.2	0.8	0	0.75	0.25	1900	45	0.03	7.00E-08

Table 3

	First film	Second film	Stacking period	Hardness	Adhesion	Friction coefficient	Specific wear
			nm	HV	N	μ	$\text{mm}^3/\text{N}\cdot\text{m}$
1	(Cr0.95, Si0.05) N	(Cr0.2, Si0.8) N	2	1950	70	<0.01	4.50E-08
2	(Cr0.95, Si0.05) N	(Cr0.2, Si0.8) N	20	1950	68	<0.01	3.40E-08
3	(Cr0.95, Si0.05) N	(Cr0.2, Si0.8) N	300	1950	72	<0.01	3.60E-08
4	(Cr0.95, Si0.05) N	(Cr0.2, Si0.8) N	800	1950	74	<0.01	4.10E-08
5	Substrate side	Surface side					
6	(Cr0.95, Si0.05) N	(Cr0.2, Si0.8) N	Compositionally graded structure	1950	76	<0.01	3.50E-08